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February 8, 2000

**UTILITY PATENT APPLICATION TRANSMITTAL LETTER**

Assistant Commissioner of Patents  
Box **Patent Application**  
Washington, D.C. 20231

Sir:

Enclosed herewith for filing is the following  
utility patent application:

Attorney Docket No.: **OOCL-14(3SN-99S1078)**

Applicant: **Takeshi SUZUKI**

Title: **"ELECTRONIC CAMERA"**

**PATENT APPLICATION FILING FEE CALCULATION**

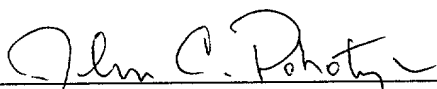
|             | <u>No. Filed</u> | <u>Less</u> | <u>Rate/Claim</u>                 | <u>Fee</u>       |
|-------------|------------------|-------------|-----------------------------------|------------------|
| Total       |                  |             |                                   |                  |
| Claims      | <u>12</u>        | -20         | 0 x \$18.00                       | \$ <u>0.00</u>   |
| Independent |                  |             |                                   |                  |
| Claims      | <u>2</u>         | -3          | 0 x \$78.00                       | \$ <u>0.00</u>   |
|             |                  |             | Minimum Filing Fee                | \$ <u>690.00</u> |
|             |                  |             | Multiple Dependency Fee           |                  |
|             |                  |             | (if applicable - \$260.00)        | \$ <u>00.00</u>  |
|             |                  |             | 50% Reduction for Small Entity    |                  |
|             |                  |             | (Independent Inventor, Non-profit |                  |
|             |                  |             | Corporation, or Small Business    |                  |
|             |                  |             | Concern) - appropriate            |                  |
|             |                  |             | verified statement attached       | \$- <u>00.00</u> |
|             |                  |             | TOTAL FILING FEE                  | \$ <u>690.00</u> |
|             |                  |             | ASSIGNMENT RECORDATION            | \$ <u>40.00</u>  |
|             |                  |             | TOTAL FEES ENCLOSED               | \$ <u>730.00</u> |



- ☐ Microfiche Computer Program (Appendix);
- ☐ English translation document;
- ☒ Submission of Priority Document and a certified copy of a Japanese patent application or inventor's certificate, filed February 8, 1999 and assigned serial no. 11-029820, upon which a claim to priority is made; and
- ☐ Other: \_\_\_\_\_

Respectfully submitted,

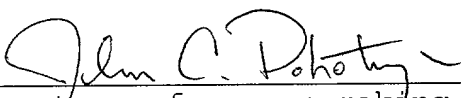
STRAUB & POKOTYLO

  
\_\_\_\_\_  
John C. Pokotylo, Attorney  
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Customer No. IDON6001137

\*\*\*EXPRESS MAIL CERTIFICATION\*\*\*

"Express Mail" mailing label number: EL404085135US  
Date of deposit: February 8, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents, **Box Patent Application**, Washington, D.C. 20231.

  
\_\_\_\_\_  
Signature of person making certification

John C. Pokotylo  
\_\_\_\_\_  
Name of person making certification



electronic camera, a camera which enables the printout immediately after taking a picture is variously proposed by providing the print mechanism to the camera in itself.

5           However, an electronic camera which comprises a print mechanism has the following disadvantages. A comparatively large current is required and it also takes time for the print operation. On the other hand, in general, since a small battery is used for the power  
10           supply, the power supply capacity is small. Therefore, the power supply remainder becomes insufficient in the print processing, an irregular print is occurred, and the print processing ends on the way occasionally. Here, when the print processing is interrupted when  
15           the print mechanism is accompanied by the chemical treatment such as the diffusion transfer method, the one piece becomes useless.

          In an electronic equipment, the technique which urges the exchange of the battery has been adopted by  
20           checking the battery remainder (reduced-voltage check) and putting out warning when the remainder of the battery becomes below a predetermined constant value. However, in an electronic camera, the load is different in each of operations such as taking a picture, the  
25           record, the reproduction, and the print. Optimal power supply management cannot be performed by uniformly performing the reduced-voltage check for these

operations.

For example, when the check level is determined according to the record, the case where the print which requires a large current more than the record cannot be performed is occurred. Oppositely, when the check level is determined according to the print, the user will exchange the battery by the reduced-voltage check even if there is a sufficient battery remainder for taking a picture and the record, though it is insufficient to the print.

#### BRIEF SUMMARY OF THE INVENTION

An object of the present invention is to provide an electronic camera which can use a built-in battery to its maximum without uselessness, and can prevent failing of the print, with the configuration which comprises the print mechanism to print out the taking a picture image.

To solve the above-mentioned subject matter, the present invention adopts the following configurations.

An electronic camera of present invention is characterized by comprising: an electronic imaging section which performs a photoelectron conversion of a subject image to generate an electric image information; a print section to print an image obtained from the image information by the electronic imaging section on a printing paper; a record section to record the image information by the electronic imaging section on

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a record medium; a mode select section to select one camera mode from among a plurality of camera modes; a power supply remainder detection section to detect a remainder to be able to supply the power supply; 5 and a power supply remainder judgment section to set a level necessary for executing an operation corresponding to a camera mode selected by the mode select section according to each of the plurality of modes and to judge whether a detected remainder is equal to or 10 larger than a setting level.

Another electronic camera of present invention, which is driven by a battery, is characterized by comprising: an imaging section which converts a subject image into image data; a record section which records 15 the image data on a detachable record medium; a print section which prints the image data in a predetermined print form; a battery remainder evaluation section which compares a remainder of the battery loaded into the electronic camera with a predetermined judgment 20 level; and a sequence controller which controls a camera sequence based on the comparison result, wherein the sequence controller applies a different judgment level to the battery remainder evaluation section at start of an operation of the print section and in a 25 print operation. In this case, the sequence controller includes a direct print mode which transfers directly to the print section without transferring the image

data to the record section.

According to an electronic camera of the present invention, since the level corresponding to the camera mode is set, and it is judged whether the detected  
5 power supply remainder is more than the setting level, optimal power supply management corresponding to the mode can be performed.

Here, preferable manners of the present invention are as follows.

10 (1) The power supply remainder judgment section sets a setting level at a print mode lower than a level at a record mode to record an image which is taken by the electronic imaging section in the record medium.

(2) The power supply remainder judgment section  
15 set a setting level of the print start at the print mode higher than a setting level of modes (for example, record mode which records the image taken by the electronic imaging section on the record medium) other than the print mode.

20 (3) The power supply remainder judgment section sets a setting level at starting a print at a print mode is set higher than a setting level at a record mode to record an image which is taken by the electronic imaging section in the record medium, and  
25 sets a setting level at the print mode is set lower than a setting level at the record mode to record the image which is taken by the electronic imaging section



in the record medium.

In the above-mentioned each electronic camera, by setting the reduced-voltage check level high before starting the print, the inconvenience such as becoming of the power supply remainder insufficient during printing can be avoided, and the print processing can surely be performed to the last minute. The print can be prevented from being interrupted by setting the reduced-voltage check level low during printing even if the power supply remainder decreases during printing. These are especially valid for the print method like the diffusion transfer method such that the print fails and a photosensitive form becomes useless when the print processing is interrupted.

(4) The power supply remainder judgment section sets a level corresponding to a mode at starting a taking a picture to a level until the print operation of the image is normally completed, at a direct print mode which performs only a print operation without recording an image taken by the electronic imaging section on the record medium. In the direct print mode, at the start of the taking a picture, the print completion can be guaranteed as long as taking a picture is permitted by setting the level corresponding to the mode at the level until the print of the image is normally completed.

(5) In the above-mentioned each of electronic

cameras, the print section has a luminescence section  
to expose a photosensitive form based on the image  
information obtained by the electronic imaging section  
and a transportation section to transport a photo-  
sensitive form.

Even if the battery remainder is insufficient to  
the print processing, it is usual to be able to use  
for other processings. In the present invention, by  
switching the setting level according to the camera  
mode, it can be judged that the battery with a little  
remainder can be used in case of which mode, as a  
result, the battery can be used without uselessness  
to the last minute. For example, even if a remainder  
becomes a capacity which cannot be used to the print,  
when it is possible to use sufficiently to imaging and  
the record, by prohibiting printing, but permitting  
only imaging and the record, etc., it becomes possible  
to use the battery to the last minute.

According to the present invention, in the  
configuration which comprises the print mechanism to  
print out the image after taking a picture, since the  
reduced-voltage check level is changed according to  
various operation modes to check the power supply,  
optimal power supply management can be performed  
anytime. Especially, by raising the reduced-voltage  
check level before starting the print and setting the  
reduced-voltage check level low during printing, the

print can surely be prevented from being interrupted according to the power supply remainder.

Additional objects and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the description, or may be learned by practice of the invention. The objects and advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed out hereinafter.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate presently preferred embodiments of the invention, and together with the general description given above and the detailed description of the preferred embodiments given below, serve to explain the principles of the invention.

FIG. 1 is block diagram which shows basic configuration of electronic camera which comprises print mechanism;

FIG. 2 is block diagram which shows specific configuration of print mechanism;

FIG. 3 is a flow chart which shows processing procedure in the first embodiment at print mode;

FIG. 4 is a flow chart which shows processing procedure in the second embodiment at print mode;

FIG. 5 is a flow chart which shows processing

procedure in the third embodiment at taking a picture mode; and

FIG. 6 is a flow chart which shows processing procedure in the fourth embodiment at print mode.

5 DETAILED DESCRIPTION OF THE INVENTION

Hereafter, details of the present invention will be explained with the embodiment referring to the drawings.

(First Embodiment)

10 FIG. 1 is a block diagram which shows configuration of electronic camera having print function according to the first embodiment of the present invention.

15 An electronic camera according to the first embodiment has imaging section 10, image data processing section 20, image data record and display section 30, control section 40, operation section 50, power supply section 60, and print section 70, in roughly classified.

20 Imaging section 10 has imaging lens 11, CCD imaging element 12, imaging circuit 13, A/D converter 14, correction circuit 15 which performs white balance, and the gamma correction, etc., and frame memory 16, etc. Imaging section 10 images the subject image taken  
25 through the optical system, which includes imaging lens 11, on CCD imaging element 12, and converts the imaged image data into a digital signal with A/D converter 14.

Imaging section 10 performs the white balance and the gamma correction, etc. with correction circuit 15, and thereafter stores images in frame memory 16 one by one.

Image data processing section 20 has CPU 2 which  
5 comprises image compression function section 21, image  
expansion function section 22, frame memory control  
function section 23, record medium access function  
section 24, and print data manufacturing function  
section 25. Image data processing section 20 has the  
10 following functions. Image data processing section 20  
stores the plurality of image data stored in said frame  
memory 16 to the record buffer not shown in the figure  
by compressing the image one by one, expands the image  
data stored in this record buffer, and sends to FIFO  
15 memory 34 of image data record and display section 30.  
In addition, image data processing section 20 accesses  
record medium 33 of image data record and display  
section 30.

Image data record and display section 30 has  
20 backlight 31, record medium I/F 32, record medium 33  
such as the flash memory card, display FIFO memory 34,  
video encode circuit 35, TFT driver circuit 36, TFT  
liquid crystal panel 37, video output circuit 38, and  
video output terminal 39. Image data record and  
25 display section 30 has the following functions. Image  
data record and display section 30 reads the image data  
recorded in the record buffer and records in record

medium 33. Image data record and display section 30 reads the image data recorded in record medium 33, sends to the display system, and displays the image.

5 The image data sent to the display system is temporarily stored in display FIFO memory 34. The image data read from display FIFO memory 34 is converted into a video signal with video encode circuit 35 and the character etc. are added thereto. Then, on one hand, a video signal to which this character etc. are added is supplied to TFT liquid crystal panel 37 through TFT driver circuit 36, and displayed as a subject image. On the other hand, it is output from a video output terminal 39 to the outside as an image signal through video output circuit 38.

10 15 Control section 40 is mainly constructed by CPU 1 which comprises system control function section 41, print mechanism control function section 42, and various other function sections (for example, compression rate change function section and pixel number change function section, etc.). Control section 40 totally controls the entire systems of imaging section 10, image data processing section 20, and image data record and display section 30, etc.

25 Actuator driver circuit 44 to drive actuator 43 which includes zooming motor or AF motor, etc., flash control circuit 46 to control luminescence of flash 45, external data I/F 47 to exchange data with personal

computer etc., and LCD display circuit 49 to display various information on LCD panel 48 are attached to control section 40.

5        Operation section 50 is connected with above-mentioned control section 40, and has the keyboard matrix which performs the switch input for the camera operation as a main operation section. Operation section 50 performs necessary control operation by giving the operation signal from the outside to above-mentioned control section 40.

10        Power supply section 60 uses battery 61(for example,  $1.5V \times 4$  pieces) as main power supply and supplies a power supply of a predetermined voltage to each circuit through power supply circuit 62.

15        A battery remainder detection circuit 63 to detect the remainder of this battery 61 in real time is provided in power supply section 60.

20        Print section 70 is constructed by FIFO memory 71 to memorize the print data temporarily and the print mechanism 72. Print mechanism 72 comprises print cartridge 73 which stored the form, cartridge detection sensor 74, line optical head 75, head driver circuit 76 to emit and drive optical head 75 electrically, driving section 77 which moves the form, and driver control

25        circuit 78 to control driving section 77, as shown in FIG. 2.

Next, the operation of this embodiment will be

explained referring to the flow chart of FIG. 3.

When the camera mode is changed by the user,  
first, whether it is a print mode or not is judged  
(step S31), and if it is a print mode, the reduced-  
5 voltage check level is set at level A which is suitable  
for the print mode (step S32). If it is not a print  
mode, whether it is a reproduction mode or not is  
checked (step S33). If it is a reproduction mode,  
the reduced-voltage check level is set at level B  
10 which is suitable for the reproduction mode (step S34).  
If it is not a reproduction mode, whether it is a  
taking a picture mode or not is checked (step S35).

If it is a taking a picture mode, the reduced-  
voltage check level is set at level C which is suitable  
15 for the taking a picture mode (step S36). If it is not  
a taking a picture mode, the reduced-voltage check  
level is set at level D which is suitable for a normal  
mode (record, state display, etc.) (step S37).

Here, the relation of level A to level D each of  
20 which is the reduced-voltage check level has a relation  
of, for example,  $C > A > B > D$ . Since the reduced-  
voltage check level is optimally set depending on the  
mode which is selected by the user, optimal power  
supply management can be performed anytime. The number  
25 of camera modes and the setting levels corresponding  
thereto can be properly changed according to the  
specification. The reduced-voltage check is not



limited to the voltage, but may be a multiplication  
the amount of the current.

As described above, optimal power supply  
management can be performed in this embodiment anytime  
5 by changing the reduced-voltage check level according  
to the camera mode. Therefore, since taking a picture  
and the print are prohibited, and the record and the  
reproduction, etc. are permitted, when it is an  
sufficient battery remainder for the record and the  
10 reproduction, even if the battery has a remainder which  
can not use for, for example, the print processing, the  
battery can be used to the last minute.

(Second Embodiment)

Since a basic configuration of an electronic  
15 camera in this embodiment is similar to FIG. 1,  
therefore drawings will be omitted.

In this embodiment, when the print start is  
directed by the user as shown in the flow chart of  
FIG. 4, first, the reduced-voltage check level is set  
20 in level A' (step S41). Here, level A' is assumed to  
be lower level than usual setting value D (level A' <  
level D). Usual setting value D is a setting level  
which is suitable for, for example, the record mode.  
Subsequently, the print operation is performed  
25 (step S42). Then, when the print operation ends,  
the reduced-voltage check level is returned to level D  
(step S43).

For the instant camera method in which the print mechanism uses the diffusion transfer method, if the print processing stops on the way, one piece becomes quite useless. Therefore, an interruption of the print should be avoided, first. Then, in this embodiment, by setting level A' which is the reduced-voltage check level in the print mode low, completion of the print is set to be top priority. Therefore, even if the battery remainder a little, the print can be prevented from interrupting.

As described above, in this embodiment, the print can be prevented from interrupting by setting the reduced-voltage check level in the print mode in a low value. Therefore, this embodiment is especially valid when the print mechanism which uses the diffusion transfer method is used.

(Third Embodiment)

Since a basic configuration of an electronic camera in this embodiment is similar to FIG. 1, therefore drawings will be omitted.

In this embodiment, as shown in the flow chart of FIG. 5, when the print start is directed by the user, the power supply remainder is checked first by reduced-voltage check level A" (step S51). Then, it is judged whether the reduced-voltage check is OK (step S52). Here, level A" which is the reduced-voltage check level is higher level than level D which is a usual level.

When it is judged that the battery remainder is equal to or larger than check level A", the print operation is performed (step S53). The reduced-voltage check level is set at level A' and the reduced-voltage is checked, as well as the second embodiment, while this printing, when the print ends, the reduced-voltage check level may be returned.

The reduced-voltage warning is displayed without performing the print operation (step S54), when the battery remainder is equal to or less than judged check level A" at step S52.

As described above, in this embodiment, by checking the reduced-voltage by higher level A" than a usual level before start printing, the print will be permitted only when there is a sufficient power supply, and the print can surely be prevented from being interrupted. By lowering the reduced-voltage check level to level A', after the print is started, as well as the second embodiment, the print is completed in top priority, and the print can more certainly be prevented from interrupting.

(Fourth Embodiment)

Since a basic configuration of an electronic camera in this embodiment is similar to FIG. 1, therefore drawings will be omitted.

This embodiment is an embodiment which performs the direct print which performs print operation at the

same time as taking a picture, as shown in the flow chart of FIG. 6.

First, when the print start is directed by the user, it is judged whether it is a direct print (step S61). When it is judged that it is a direct print, the power supply is checked in the reduced-voltage check level P considered from taking a picture to the print operation (step S62), and when it is judged that it is not a direct print, the battery remainder is checked at level C ( $C < P$ ) which is a suitable reduced-voltage check level for the taking a picture mode or level D which is a usual reduced-voltage check level (step S63).

Next, it is judged whether the reduced-voltage check is OK (step S64). When it is judged that the reduced-voltage check is OK, the taking a picture operation is performed (step S65). Then, it is judged whether it is a direct print again (step S66). When it is a direct print, the print operation is performed (step S67), and when it is not a direct print, the record on the record medium is performed (step S68).

One side, when it is judged that the reduced-voltage check is not OK in step S64, the reduced-voltage warning is displayed without performing the taking a picture operation (S69).

As described above, in this embodiment, when the user directs a direct print, it is possible to print

directly when there is the sufficient battery remainder  
by checking the reduced-voltage at high level P, which  
is necessary for direct print. However, when the  
battery remainder is insufficient, the reduced-voltage  
warning is displayed, and a direct print is prohibited.  
Therefore, the inconvenience such that direct print  
performs even though the battery remainder is  
insufficient, the print is interrupted during printing  
after taking a picture, and the form becomes useless,  
can be prevented beforehand.

The present invention is not limited to each  
embodiment mentioned above. The configuration of the  
print mechanism is not limited to a so-called instant  
camera method to obtain the positive image directly by  
using the diffusion transfer method, and the printer of  
the thermal transfer type, the ink-jet type, and the  
sublimation type may be used.

The configuration of the main body of the camera  
is not limited to a camera as shown in FIG. 1, and may  
be a camera which images subject image by the imaging  
element such as CCD to generate an electric image  
information, and memorize this image information to the  
flash memory, etc. In the method of batch display and  
print out the image to printing paper at the same time  
as taking a picture, it is also possible to omit the  
memory such as the flash memory.

The present invention can be carried out by

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Additional advantages and modifications will readily occur to those skilled in the art. Therefore, the present invention in its broader aspects is not limited to the specific details, representative devices, and illustrated examples shown and described herein. Accordingly, various modifications may be made without departing from the spirit or scope of the general inventive concept as defined by the appended claims and their equivalents.



3. The electronic camera according to claim 1,  
wherein said power supply remainder judgment section  
sets a setting level at a print mode lower than a level  
at a record mode to record an image which is taken by  
5 said electronic imaging section in said record medium.

4. The electronic camera according to claim 3,  
wherein said print section has a luminescence section  
to expose a photosensitive form based on the image  
information obtained by said electronic imaging section  
10 and a transportation section to transport a photo-  
sensitive form.

5. The electronic camera according to claim 1,  
wherein said power supply remainder judgment section  
sets a setting level of starting a print at a print  
15 mode higher than a setting level at a record mode to  
record an image which is taken by said electronic  
imaging section in said record medium.

6. The electronic camera according to claim 5,  
wherein said print section has a luminescence section  
20 to expose a photosensitive form based on the image  
information obtained by said electronic imaging  
section and a transportation section to transport  
a photosensitive form.

7. The electronic camera according to claim 1,  
25 wherein said power supply remainder judgment section  
sets a setting level at starting a print at a print  
mode is set higher than a setting level at a record

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mode to record an image which is taken by said  
electronic imaging section in said record medium, and  
sets a setting level at the print mode is set lower  
than a setting level at the record mode to record the  
5 image which is taken by said electronic imaging section  
in said record medium.

8. The electronic camera according to claim 7,  
wherein said print section has a luminescence section  
to expose a photosensitive form based on the image  
10 information obtained by said electronic imaging  
section and a transportation section to transport  
a photosensitive form.

9. The electronic camera according to claim 1,  
wherein said power supply remainder judgment section  
15 sets a level corresponding to a mode at starting a  
taking a picture to a level until the print operation  
of the image is normally completed, at a direct print  
mode which performs only a print operation without  
recording an image taken by said electronic imaging  
20 section on said record medium.

10. The electronic camera according to claim 9,  
wherein said print section has a luminescence section  
to expose a photosensitive form based on the image  
information obtained by said electronic imaging  
25 section and a transportation section to transport  
a photosensitive form.

11. An electronic camera which is driven by

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12. The electronic camera according to claim 11, wherein said sequence controller includes a direct print mode which transfers directly to said print section without transferring said image data to said record section.

ABSTRACT OF THE DISCLOSURE

An electronic camera includes an electronic imaging section which performs a photoelectron conversion of a subject image to generate an electric image information, a print section to print an image obtained from the image information by the electronic imaging section on a printing paper, a record section to record the image information by the electronic imaging section on a record medium, a mode select section to select one camera mode from among a plurality of camera modes, a power supply remainder detection section to detect a remainder to be able to supply the power supply, and a power supply remainder judgment section to set a level necessary for executing an operation corresponding to a camera mode selected by the mode select section according to each of the plurality of modes and to judge whether a detected remainder is equal to or larger than a setting level.

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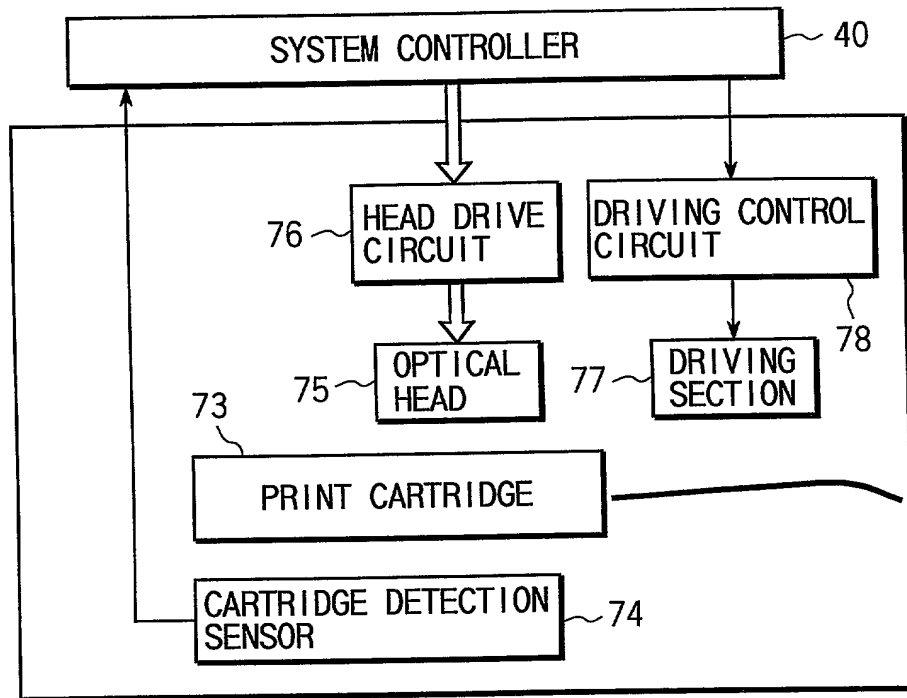


FIG. 2

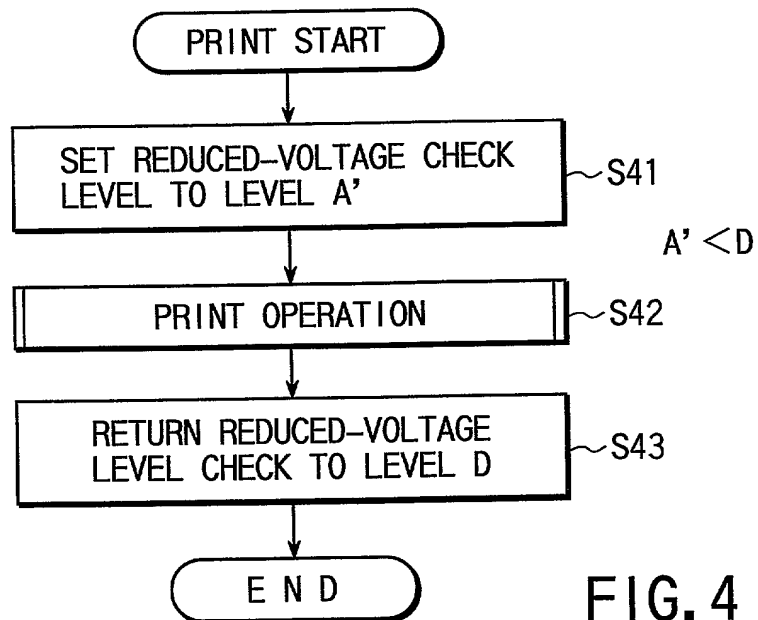
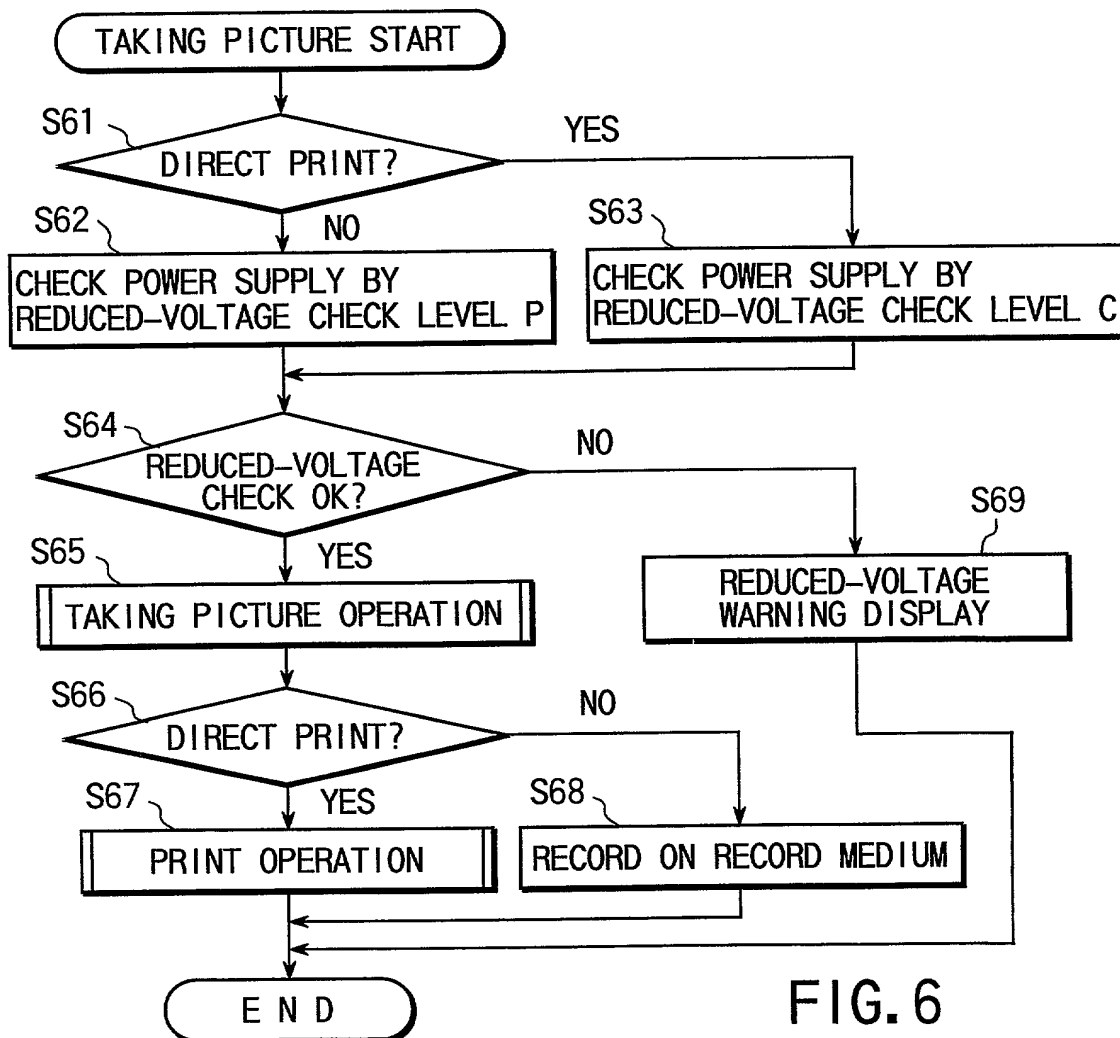
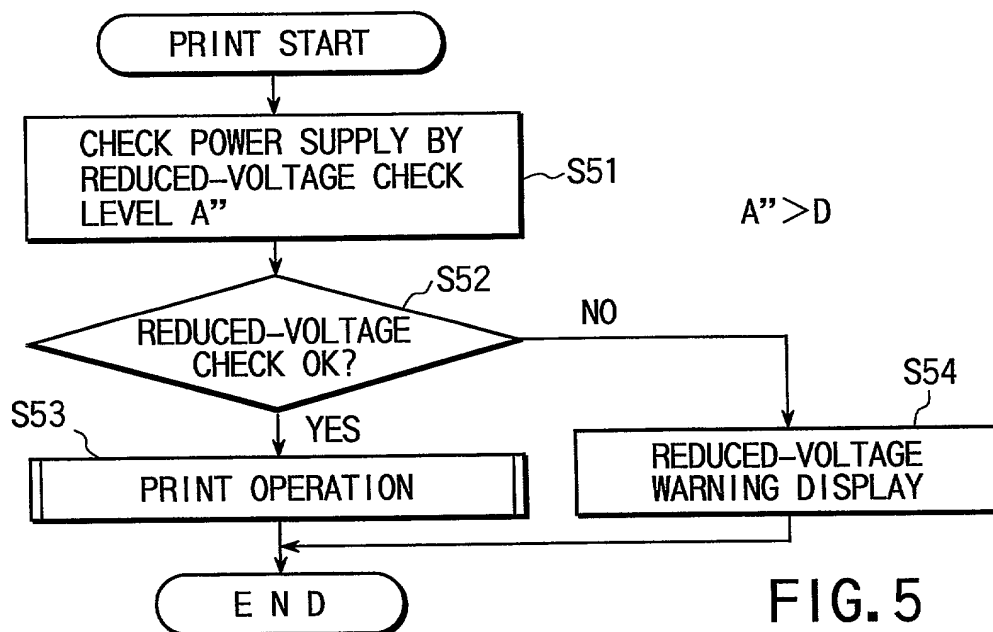


FIG. 4





# Declaration Power of Attorney For Patent Application

## 特許出願宣言書及び委任状 Japanese Language Declaration 日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の横に記載された通りです。

My residence, post office address and citizenship are as stated below next to my name,

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

電子カメラ

ELECTRONIC CAMERA

上記発明の明細書（下記の欄で×印がついていない場合は、本書に添付）は、

The specification of which is attached hereto unless the following box is checked:

☐ \_\_\_\_\_ 月 \_\_\_\_\_ 日に

提出され米国出願番号または特許協定条約

☐ was filed on \_\_\_\_\_  
as United States Application Number or  
PCT international Application Number

国際出願番号を \_\_\_\_\_ とし、

\_\_\_\_\_ and was amended on

（該当する場合） \_\_\_\_\_ 月 \_\_\_\_\_ 日に訂正されました。

\_\_\_\_\_ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編第1条56項に定義されたとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56



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Prior Foreign Application(s)

## 外国での先行出願

11-029820

(Number)  
(番号)

J A P A N

(Country)  
(国名)

08/02/1999

(Day/Month/Year Filed)  
(出願年月日)

Priority Not Claimed

優先権の主張なし

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□

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(Filing Date)  
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委任状：私は、下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。  
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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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(第二以降の共同発明者に対しても同様に記載し、署名をすること。)

(Supply similar information and signature for second and subsequent joint inventors.)

006020-4200560